rLEDBAT: receiver-driven Low Extra Delay Background Transport for TCP draft-irtf-iccrg-rledbat-06

rLEDBAT

- Receiver based LEDBAT for TCP
- Congestion control algorithm runs in the receiver
- The receiver controls the sender’s rate through the RCVWND
- Use cases:
  - LEDBAT oblivious CDNs
  - Transport proxies

rLEDBAT implementations

The following implementations of rLEDBAT are available:

- Windows 11. rLEDBAT is available in Windows 11 since 2023
- Windows Server 2022. rLEDBAT is available in Windows Server 2022
- Linux implementation, open source, available since 2022
- ns3 implementation, open source, available since 2020

- Some initial experiments involving rLEDBAT have been reported in

Bagnulo, M.B., Garcia-Martinez, A.G., Mandalari, A.M., Balasubramanian, P.B,., Havey, D.H., and G.M. Montenegro, "Design, implementation and validation of a receiver- driven less-than-best-effort transport", Computer Networks Volume 233, 2022.

Updates on v06

- Based On Reese’s comments, Thanks Reese!!
- Improved Security Considerations Section
- New section on Experiment Considerations that includes a subsection on Status of the experiment at the time of this writing that details current implementations.

Next steps??